



TRANSFORMATIVE GIVING OPPORTUNITIES

UCLA College | Physical Sciences
Chemistry & Biochemistry



**WE ARE THE PIONEERS
THE EXPLORERS
THE DOERS
WE ASK "WHAT IF?"**

COME JOIN THE CURIOUS.

UCLA Undergraduate
RESEARCH WEEK
RESEARCH POSTER DAY
STUDENT PRESENTER
WEEK-END AWARDS

College | Physical Sciences
UCLA Chemistry & Biochemistry
chemistry.ucla.edu

AT THE FOREFRONT OF DISCOVERY

The Department of Chemistry & Biochemistry is ranked among the best in the country thanks to the quality of its programs, the caliber of its faculty and the excellence of its students.

The department is home to internationally renowned faculty pursuing research in all areas of chemistry and biochemistry. The goals of their research include synthesizing complex natural products and new nano-materials required to solve the many health and environmental crises facing our planet, and illuminating the molecular mechanisms that regulate the decoding of genetic information.

Because research spans traditional disciplinary boundaries, our faculty play key roles at interdepartmental research units at UCLA including the California Nanosystems Institute; the Molecular Biology Institute; the Broad Stem Cell Institute; the Institute for Genomics and Proteomics; and the Jonsson Comprehensive Cancer Center.

BY THE NUMBERS

1,100+

UNDERGRADUATES
IN THE MAJOR

20,000+

ANNUAL UNDERGRADUATE
COURSE ENROLLMENTS

300+

GRADUATE
STUDENTS

60+

POSTDOCTORAL
RESEARCHERS

57

FACULTY

2 PH.D.
PROGRAMS

Biochemistry, Molecular and
Structural Biology (BMSB)
and Chemistry

8 CHEMISTRY PH.D.
SPECIALIZATIONS

Analytical/Instrumentation

Biophysics

Chemical Biology

Inorganic

Materials

Organic

Physical

Theory and Computation

WORLD-CLASS RECOGNITION

7

NOBEL PRIZES
4 FACULTY
3 ALUMNI

4

NATIONAL
MEDALS
OF SCIENCE

12

NATIONAL
ACADEMY OF
SCIENCE MEMBERS

AWARDS FOR EXCEPTIONAL TEACHING BY DEPARTMENT FACULTY

24 DISTINGUISHED
TEACHING AWARDS

Among the highest number received by any
UCLA department

10

DISTINGUISHED TEACHING
ASSISTANT AWARDS
(GRADUATE STUDENTS)

WHY GIVE?

In just one hundred years, UCLA has become one of the world's best universities, public or private. The Department of Chemistry & Biochemistry seeks philanthropic support to **propel the next hundred years of transformative research, academic excellence and innovative teaching**. With state support providing the barest foundation for UCLA's budget, just seven percent, philanthropy will continue to be vital to keep the department at the **forefront of scientific discovery and leadership**.

ENDOWMENT GIFTS

Endowment gifts are particularly important to maintain the department's excellence because they are invested to provide a source of reliable, renewable funds during times when research grants or state support may fluctuate. A portion of the return on the investment goes toward designated purposes, while the remaining portion of the return is reinvested into the principal sum to create market growth. In this way, an endowment serves immediate needs and creates financial security for the future.

MATCHING FUNDS

The department's matching gift program is bolstering the power of philanthropy by matching qualifying endowment gifts of \$100,000 to \$1 million on a 1:1 basis for a limited time. This opportunity transforms a \$500,000 gift, for example, into a total investment of \$1,000,000.

Note: Gift levels and opportunities in this document are accurate as of Fall 2020 and subject to change.



ATTRACTING WORLD-CLASS FACULTY

Endowed chairs are crucial to the department's ability to recruit and retain world-class faculty who pursue transformative research and educate new generations. UCLA competes for the same star faculty as our peer institutions, many of which have much larger endowments and can offer more substantial financial packages and sizable research budgets. A prestigious endowed chair provides guaranteed annual funds for research and graduate student support.

Listed below are naming opportunities for endowed chairs at various levels.

NAMED DEPARTMENT CHAIR - \$5 MILLION

A named, endowed department chair provides financial resources to ensure that the most dedicated, accomplished faculty can serve in this vital leadership role while allowing the holder to continue their research without interruption, a significant consideration for faculty members. The appointment is for the duration of the chair holder's term.

NAMED ENDOWED CHAIR (WITH SALARY SUPPORT) - \$5 MILLION

An endowed chair (with salary support) supports a full-time faculty position on a permanent basis and is a special incentive to recruit and/or retain gifted faculty members. In addition to salary support, endowment income provides financial resources for research, teaching and graduate students.

NAMED ENDOWED CHAIR (WITHOUT SALARY SUPPORT) - \$2 MILLION

An endowed chair (without salary support) is an incentive to attract a scholar of distinction to UCLA or to retain gifted faculty members whose teaching and research exemplify UCLA's mission. Endowment income provides support for research, teaching and graduate students.

NAMED TERM CHAIR - \$1 MILLION

A named term chair allows the department to recruit, retain and support the career development of exceptional junior-level faculty. A term chair is awarded for a renewable five-year period and can also be awarded to visiting professors.

Additional opportunities to support faculty can be found on p. 10.

EMPOWERING NEW GENERATIONS

Gifts to support postdoctoral researchers, graduate students and undergraduates in chemistry and biochemistry empower the next generation of researchers, innovators and scientific leaders.

NAMED PRIZE POSTDOCTORAL FELLOWSHIP - \$1 MILLION

Establishing a prestigious prize postdoctoral fellowship is a top priority of the department to help attract first-rate postdoctoral chemistry and biochemistry researchers to UCLA. Postdocs represent the next generation of faculty members. They are fully immersed in research, contribute to the intellectual life of the department, and serve as a bridge between graduate students and faculty. Postdocs mentor graduate students, advise on research methods and serve as role models for possible career paths in chemistry and biochemistry. An endowment at this level funds one Prize Postdoctoral Fellow annually.

NAMED GRADUATE FELLOWSHIP - \$350,000

Named, graduate fellowships are one of the department's highest priorities as they allow the department to compete successfully for the most promising graduate students. Graduate students play a crucial role by introducing new research themes and methods, assisting faculty with their research, and teaching and mentoring undergraduates. Competition for the best graduate students is intense. When considering offers of admission, graduate students must weigh not only the reputation of the admitting institution but also the level of financial support, given the ongoing rise of graduate school costs, living expenses and debt burden. Endowed graduate fellowships are critical to UCLA's ability to compete with other top-tier peer institutions in attracting the best and brightest students.

NAMED UNDERGRADUATE ENDOWMENT - \$100,000

A named undergraduate endowment gives talented students from all backgrounds a chance to make the most of their strengths and to achieve their aspirations by removing financial barriers to learning and rewarding academic achievement. Undergraduate awards allow the department to provide opportunities for undergraduates to collaborate side by side with faculty and graduate students on unique and valuable research.

Additional opportunities to support postdoctoral researchers, graduate students and undergraduate students can be found on pp. 10-11.

TOOLS FOR SUCCESS

SCIENTIFIC EQUIPMENT - \$100,000+

To continue to drive scientific research forward, the department's equipment must be constantly maintained and upgraded. A gift toward the maintenance and purchase of this scientific equipment ensures that our faculty and students have the necessary equipment to conduct their research, accelerate discovery, and secure UCLA's continued prominence at the frontiers of science.

INSTRUMENTATION FACILITIES SUPPORT FUND - \$50,000+

Donors may contribute to a larger endowment for the instrumentation facilities housed within the department and used by campus units including the medical school, engineering, life sciences and by collaborators in the greater Los Angeles community. This is an essential resource for UCLA researchers: for example, it has been used for groundbreaking research such as the development of Professor Michael Jung's life-saving prostate cancer drugs. The department aims to raise at least \$2 million in pooled gift funds from donors, with matching funds contributing to an overall goal of \$5 million. This level of funding will ensure that the facility continues to serve the scientific community and facilitate research at the cutting edge of science and technology.



SHARING SCIENTIFIC KNOWLEDGE

WEEKLY SEMINARS

For decades, the department has offered a fascinating series of weekly seminars that encourage the exchange of scientific ideas, enrich student education and contribute to the department's vitality. Students, faculty and the UCLA community are given valuable opportunities to hear from distinguished academic and industrial researchers from around the world who specialize in the chemistry of each division.

Endowed gifts provide stable funding for these first-rate lectures and enable the department to continue the tradition for decades to come.

Donors may choose to make a gift to any of the following funds:

THE RICHARD E. DICKERSON BIOCHEMISTRY SEMINAR FUND
INORGANIC CHEMISTRY SEMINAR SERIES
HOUK-JUNG ORGANIC COLLOQUIUM
PHYSICAL CHEMISTRY SEMINAR SERIES

NAMED SEMINARS AND LECTURES

Donors may also choose to support the following seminars and lectures:

ORVILLE L. CHAPMAN LECTURES
CHRISTOPHER S. FOOTE LECTURES
JOHN D. AND EDITH M. ROBERTS LECTURES
THE DONALD J. CRAM LECTURES
CAROLYN AND CHARLES KNOBLER LECTURE
DANIEL KIVELSON LECTURE
ROBERT SCOTT LECTURE
RICHARD BERNSTEIN LECTURE
M. FREDERICK HAWTHORNE LECTURE

ADDITIONAL GIVING OPPORTUNITIES

DEPARTMENT DISCRETIONARY FUND

Also known as the Chemistry Advisory Council Fund, this fund provides support to the areas of greatest need, as determined by the Department Chair in consultation with the faculty. These include undergraduate research fellowships, graduate student fellowships, research instrumentation, modernizing research and teaching laboratories, and travel stipends for students to attend and present their findings at conferences.

GRADUATE STUDENT RECRUITMENT FUND

Donations to this fund strengthen the department's ability to compete for the best graduate students by inviting top applicants to campus to give them a firsthand glimpse of the department's research and academic excellence.

GLENN T. SEABORG SYMPOSIUM AND MEDAL DINNER

This annual event is named in honor of Dr. Glenn T. Seaborg '34, who was awarded the 1951 Nobel Prize in Chemistry. It was established in 1987 by the department to honor exceptional contributions to chemistry and biochemistry. Since then, nine Nobel laureates have received the Seaborg medal.

ENTREPRENEURSHIP FUND

This fund allows the department to invest seed money in promising new ideas and technologies, under the direction of Professor Michael Jung, Associate Dean for Entrepreneurship and Innovation at UCLA.

CAREERS IN CHEMISTRY & BIOCHEMISTRY (CHEM 147)

Financial support will allow the department to expand the field of alumni invited to speak about their careers to undergraduate students.

WOMEN IN CHEMISTRY FUND

This fund helps the department recruit and retain talented female professors and postdoctoral scholars by providing unique opportunities for mentorship and networking.

EDUCATION INNOVATION FUND

This fund was established in 2018 to support the department's faculty and students aiming to launch transformative educational initiatives with a lasting impact on undergraduate education.

PAUL D. BOYER TEACHER-SCHOLAR FUND (FOR POSTDOCTORAL SCHOLARS)

Established in honor of Nobel laureate and UCLA professor Paul Boyer, the Boyer Teacher-Scholar Fund recognizes one recent Ph.D. graduate each year. Boyer Teacher-Scholars conduct cutting-edge postdoctoral research under a faculty member and teach undergraduates. Donations to this fund support the postdoctoral research of the Boyer Teacher-Scholar and travel to scientific conferences.

ADDITIONAL GIVING OPPORTUNITIES - cont.

SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP PROGRAM

One of the unique benefits of attending UCLA as an undergraduate is the opportunity to participate in meaningful research guided by eminent faculty. This is also an essential step along the path to graduate school and beyond. However, research opportunities are often limited by the availability of funds to support the hourly cost of an undergraduate intern. This program makes it possible for budding scientists to gain invaluable research experience and pursue their dreams. Thanks to donor support, around 40 talented chemistry and biochemistry undergraduate students receive a \$4,000 fellowship each year to conduct research in faculty labs during the summer. A gift to this fund will increase the number of students the department can support.

PAUL BOYER SUMMER UNDERGRADUATE RESEARCH FELLOWSHIPS FOR BIOCHEMISTRY STUDENTS

Established in honor of Nobel laureate and UCLA professor Paul Boyer, this endowment supports summer undergraduate research fellowships for students in the biochemistry major. Many of the department's nearly 900 undergraduate biochemistry majors apply each year for a very small number of summer fellowships to conduct research in faculty labs. The department hopes to increase the number of available Boyer fellowships so that more students may benefit.

ATKINSON WEST FUND

In honor of professors Daniel E. Atkinson and Charles A. West, this fund awards prizes and fellowships to undergraduate and graduate students in recognition of their excellence in Metabolic Biochemistry.

DAFNI AMIRSAKIS FUND

To honor the memory of research staff member Dr. Dafni Amirsakis Ph.D. '02, this fund provides fellowship support to graduate students.

THE VERNE SCHUMAKER STUDENT SUPPORT FUND

To honor the memory of Professor Verne N. Schumaker, this fund supports undergraduate and graduate student research fellowships within the department.

ROBERTS A. SMITH GRADUATE AWARD FOR THE STUDY OF BIOCHEMISTRY FUND

To honor the memory of Professor Roberts "Bob" Smith and his commitment to research, education and pharmaceutical advancement, this fund recognizes outstanding biochemistry students.

For more information, please contact Joy Kruger, Assistant Director of Development, UCLA College Physical Sciences, at jkruger@support.ucla.edu or (310) 363-9557.

Thank you for supporting the UCLA Department of Chemistry and Biochemistry!

www.chemistry.ucla.edu/support-us